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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,053	12/02/2003	Tadahiro Kegasawa	Q78706	2949
23373 SUGHRUE MI	7590 04/15/2003 ON, PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			WOLLSCHLAGER, JEFFREY MICHAEL	
SUITE 800 WASHINGTO	N, DC 20037		ART UNIT	PAPER NUMBER
			1791	
			MAIL DATE	DELIVERY MODE
			04/15/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/725,053	KEGASAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jeff Wollschlager	1791				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>04 Ja</u>	nuarv 2008.					
• • • • • • • • • • • • • • • • • • • •	action is non-final.					
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) M Notice of References Cited (RTO 903)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) U Other:						

#### **DETAILED ACTION**

### Response to Amendment

Applicant's amendment to the claims filed January 4, 2008 has been entered. Claims 6-17 have been canceled. Claims 1 and 2 are currently amended. Claims 1-5 remain pending and under examination.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wenz Jr. (US 4,731,004).

Regarding claim 1, Wenz Jr. teaches a method of side-by-side co-extrusion using multiple materials wherein a main resin B and a second resin A for edge portions (Figure 1; col. 1, lines 12-17) are brought together such that resin A encloses the edges of resin B and wherein the combined resins are extruded through a die to form a resin film (Figure 6). Wenz Jr.

teaches that no intermixing between the resins can be achieved and forming a boundary between the resins (Figure 1; col. 3, lines 21-29). Wenz Jr. further teaches that the process allows for tapering or fading of the materials (col. 3, lines 43-64; col. 9, lines 18-21 and col. 9, lines 44-48) to be precisely determined as required. The examiner submits that the teaching of Wenz Jr. resonably suggests the shape of the resin interface is readily optimized to form the desired appearance and that the tapering and fading of the one resin into the other resin implies forming a convex shape and concave shape of the other resin. Additionally, since the main resin B layer has an exposed layer on both top and bottom the second resin A is understood to only enclose the side edges of the main resin. The examiner submits that Wenz Jr. has effectively established the shape of the resin interface as a result effective variable that would have been readily optimized.

As to claims 2, Wenz Jr. teaches the viscosity/melt flow rate of the differing resins is employed as a variable to effect the interface between the resins (col. 8, lines 60-67).

As to claim 3, Wenz Jr. teaches controlling the flow rate of the materials (col. 2, lines 36-40; col. 9, lines 25-28).

As to claim 4, Wenz Jr. teaches the viscosity of the material impacts the interface between the resins. As the viscosity of a material is dependent upon its temperature, the examiner submits one having ordinary skill in the art would have readily adjusted the temperature to control the viscosity in view of the teaching of Wenz Jr.

As to claim 5, Wenz Jr. teaches controlling the width of each material (col. 2, lines 40-42; col. 3, line 65-col. 4, line 6).

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peiffer et al. (US 5,716,570) in view of Wenz Jr. (US 4,731,004).

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Regarding claim 1, Peiffer et al. teach the basic claimed process of producing a plastic film wherein a main resin B is enclosed only on the side edges by resin A to form a boundary and extruding the resins through an extruding die (Abstract; Figure 3 and 3a). Peiffer et al. do not teach the main resin has a convex shape and the side edge resin has a concave shape. However, Wenz Jr. teach a method of side-by-side co-extrusion to form a film wherein the shape of the interface between the resins is controlled and adjusted as required to achieve a desired appearance (col. 3, lines 21-64).

Therefore it would have been *prima facie* obvious to one having ordinary skill in the art at the time of the claimed invention to have modified the method of Peiffer et al. with the teaching of Wenz Jr. and to have optimized the shape of the interface between the resins for the purpose as taught by Wenz Jr. of meeting customer demands and providing a desired appearance (col. 3, lines 43-51; col. 9, lines 18-24 and 43-48). The examiner submits that Wenz Jr. has effectively established the shape of the interface between the two resins as a result effective variable.

As to claims 2-5, Wenz Jr. teaches controlling viscosity, flow rates and widths (col. 8, lines 60-67; col. 2, lines 36-40; col. 3, line 65-col. 4, line 6; col. 9, lines 25-28) to control the interface between the resins.

Therefore it would have been *prima facie* obvious to one having ordinary skill in the art at the time of the claimed invention to have modified the method of Peiffer et al. with the teaching of Wenz Jr. and to have utilized viscosity, flow rates and width to control the interface between the resins for the purpose of achieving a desired product appearance.

Claims 1, 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peiffer et al. (US 5,716,570) in view of Nishimoto et al. (US 4,265,693).

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Regarding claims 1, 2 and 4, Peiffer et al. teach the basic claimed process of producing a plastic film wherein a main resin B is enclosed only on the side edges by resin A to form a boundary and extruding the resins through an extruding die (Abstract; Figure 3 and 3a). Peiffer et al. do not teach the main resin has a convex shape and the side edge resin has a concave shape. However, Nishimoto et al. teach an extrusion method for producing a film wherein the material that is more spreadable/less viscous is formed in a convex shape and the other material is formed in a concave shape to provide a uniform material upon extrusion through the die (col. 2, lines 17-30).

Therefore it would have been *prima facie* obvious to one having ordinary skill in the art at the time of the claimed invention to have modified the method of Peiffer et al. with the teaching of Nishimoto et al. and to have controlled the shape of the materials for the purpose of promoting a uniform material upon extrusion through the die. Regarding claim 4 the examiner notes that the viscosity/melt flow rate of the resin is impacted by the temperature of the resin.

Claims 1, 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoagland et al. (US 3,825,383) in view of Peiffer et al. (US 5,716,570).

Regarding claim 1, Hoagland et al. teach a method of producing a multi-layered film wherein a main resin 60 and a secondary resin 61a and 61b are brought together before they are extruded through a die wherein there is a boundary between the layers and the main portion of the resin has a convex shape and the secondary resin has a concave shape (Figure 9; col. 2, lines 5-28; Example 1 and Example 2). Hoagland form a film that is flattened in the die such that the secondary resin layers form a top and bottom portion not edge portions. However, Peiffer et al. teach that in film fomring extrusion processes the films that were conventionally

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only provided on the top and bottom of the multilayered film (Figure 2) can also be formed as edge resins (Figure 3).

Therefore it would have been *prima facie* obvious to one having ordinary skill in the art at the time of the claimed invention to have modified the method of Hoagland and to have formed a film with the secondary resin on the edge portions as suggested by Peiffer et al. for the purpose of producing additional film products and for the purpose of facilitating recycling of edged trim film and reducing operational costs.

As to claim 3, Hoagland teaches controlling the ratio of the resin feed rates (col. 4, lines 60-66).

As to claim 4, Hoagland employ different temperatures for the different resins (col. 5, lines 11-19).

## Response to Arguments

Applicant's arguments filed January 4, 2008 and October 9, 2007 have been fully considered, but are moot in view of the new grounds of rejection necessitated by the amendment to the claims.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Wollschlager whose telephone number is (571)272-8937. The examiner can normally be reached on Monday - Thursday 6:45 - 4:15, alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on 571-272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. W./ Examiner, Art Unit 1791

April 15, 2008

/Monica A Huson/ Primary Examiner, Art Unit 1791